Name:_____ TP ____

Failure to show work will result in LaSalle.

HW#18: Reflections Pt. 1
Geometry
Due: Tuesday, Oct 6th

1) Describe the process for finding the reflection of a pre-image across a horizontal or vertical axis. What must be true in order to be able to use your process? Justify your process by providing an example below.

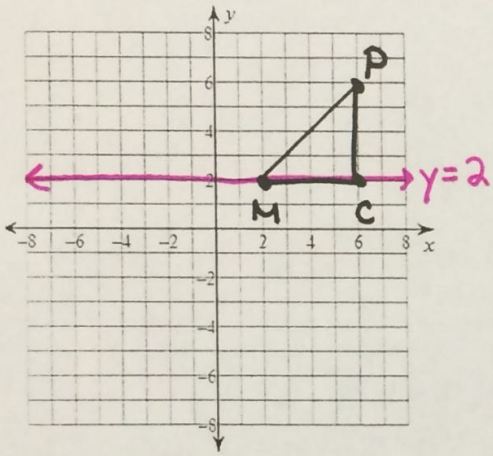
Horizontal:

Example:

Vertical:

Example:

2) Reflect the triangle MCP across $y=2$

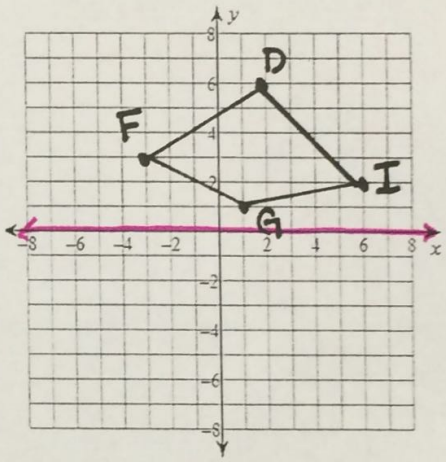


Give the coordinates of each point below:

$M =$
$C =$
$P =$

$M' =$
$C' =$
$P' =$

3) Reflect the quadrilateral FDIG across the x-axis.



Give the coordinates of each point below:

$F =$
$D =$
$I =$
$G =$

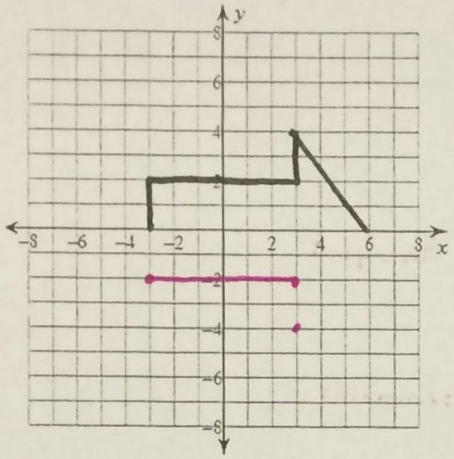
$F' =$
$D' =$
$I' =$
$G' =$

Flip →

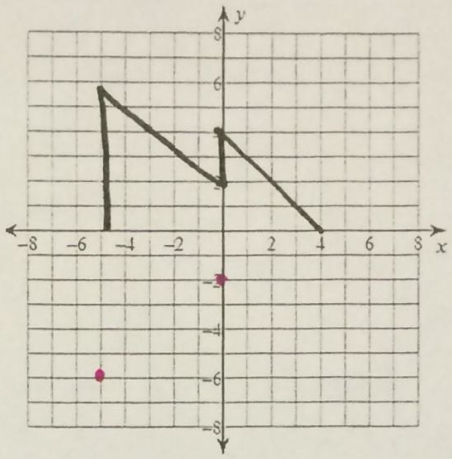
BE YOUR BEST SELF

4) Use a reflection in the x-axis to draw the other half of the figure:

a)



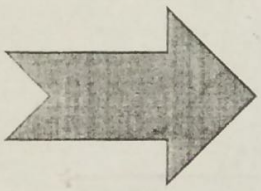
b)



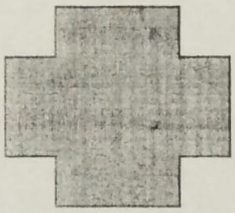
c) Describe, in at least 1 full sentence, the strategy you used to draw in the second half.

Determine and label the lines of symmetry for each shape below.

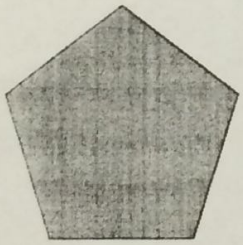
5)



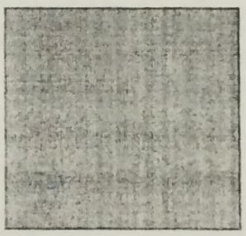
6)



7)



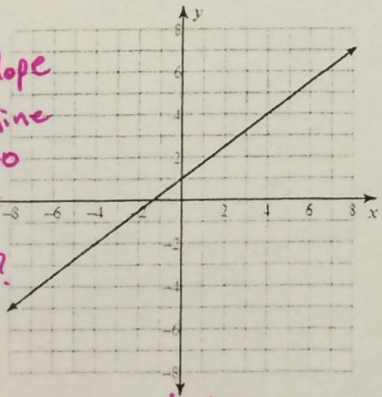
8)



Parallel Lines Review

9) Determine whether or not each of the functions below is parallel to $f(x) = \frac{3}{4}x + 4$

a)



Is the slope of the line equal to $\frac{3}{4}$? Dif y-int?

Yes / No

b) Is the rate of change equal to $\frac{3}{4}$?

x	$g(x)$	
0	0	Dif y-int?
4	3	+4 <, > +3
12	9	+8 <, > +6
16	12	+4 <, > +3

Yes / No

c) $h(x) = -\frac{3}{4}x - 1$

Yes / No